## SEQUENCE LISTING

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<110> Hattori, Kunihiro Kojima, Tetsuo Miyazaki, Taro Soeda, Tetsuhiro Senoo, Chiaki Natori, Osamu Kasutani, Keiko Ishii, Shinya

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<151> 2003-10-14

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Trp Ile Asn Trp Ile Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile
35 40 45

Gly Arg Ile Asp Pro Tyr Asp Ser Glu Thr Arg Tyr Asn Gln Lys Phe 50 60

Lys Asp Lys Ala Ile Leu Thr Val Asp Lys Tyr Ser Ser Thr Ala Tyr 65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
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Ala Lys Gly Val Tyr Asp Gly His Trp Phe Phe Asp Val Trp Gly Ala 100 105 110

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Tyr Ser Ala Ser Tyr Arg Tyr Thr Gly Val Pro Ala Arg Phe Ser Gly 50 60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Val Gln Thr 65 70 75 80

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Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu Lys Arg

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Gly Asn Ile Asp Pro Tyr Asn Gly Asp Thr Asn Tyr Asn Gln Lys Phe 50 55 60

Lys Gly Lys Ala Thr Leu Thr Leu Asp Lys Ser Ser Ser Thr Ala Tyr 65 70 75 80

Met Gln Leu Lys Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys 85 90 95

Ala Arg Ser Arg Gly Trp Leu Leu Pro Phe Ala Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ala 115

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Asp Arg Val Ser Val Thr Cys Lys Ala Ser Gln Asn Val Gly Ile Asn 20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Ala Leu Ile 35 40 45

Tyr Ser Ala Ser Tyr Arg Tyr Ser Gly Val Pro Asp Arg Phe Thr Gly 50 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asn Val Gln Ser 65 70 75 80

Glu Asp Leu Ala Glu Tyr Phe Cys Gln Gln Tyr Asn Ser Tyr Pro Leu 85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg

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<213> Homo sapiens

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Ala Ile His Trp Val Arg Gln Ser His Ala Gln Ser Leu Glu Trp Ile 35 40 45

Gly Val Ile Gly Thr Tyr Ser Gly Asn Arg Asn Tyr Asn Gln Lys Phe 50 60

Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr 65 70 75 80

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Val Thr Val Ser Ser 115

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Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser 20 25 30

Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser 35 40 45

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro 50 60

Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile 70 75 80

Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Trp Gln Gly 85 90 95

Lys His Phe Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
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Leu Ile Glu Trp Ile Arg Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile 35 40 45

Gly Val Ile Asn Pro Gly Ser Gly Asn Ser Lys Ser Ser Lys Asn Leu 50 55 60

Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Asn Thr Ala Tyr 65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys 85 90 95

Ala Arg Ser Gly Val Tyr Gly Ser Ser Pro Asp Tyr Trp Gly Gln Gly
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Thr Thr Leu Thr Val Ser Ser 115

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Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser 35 40 45

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro 50 55 60

Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile 65 70 75 80

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100 105 110

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<210> 9

<211> 118

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<213> Homo sapiens

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Leu Ile Glu Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Asp Trp Ile 35 40 45

Gly Met Ile Asn Pro Gly Ser Gly Gly Thr Lys Cys Asn Lys Lys Phe 50 55 60

Lys Gly Lys Val Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr 65 70 75 80

Met His Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys 85 90 95

Ala Arg Ser Gly Trp Val Ser Ala Met Asp Tyr Trp Gly Gln Gly Thr
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Ser Val Thr Val Ser Ser 115

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<213> Homo sapiens

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Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser 20 25 30

Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser 35 40 45

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro 50 55 60

Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile 70 75 80

Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Trp Gln Gly
85 90 95

Thr His Phe Pro Gln Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu Lys
100 105 110

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<210> 11

<211> 118

<212> PRT

<213> Homo sapiens

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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn Tyr 20 25 30

Leu Ile Glu Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Asp Trp Ile 35 40 45

Gly Met Ile Asn Pro Gly Ser Gly Gly Thr Lys Cys Asn Lys Lys Phe 50 55 60

Lys Gly Lys Val Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr 65 70 75 80

Met His Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys 85 90 95

Ala Arg Ser Gly Trp Val Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
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Ser Val Thr Val Ser Ser 115

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Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser 20 25 30

Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser 35 40 45

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro 50 55 60

Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile 65 70 75 80

Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Trp Gln Gly 85 90 95

Thr His Phe Pro Gln Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu Lys
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Arg

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<213> Homo sapiens

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20 25 30

Ala Ile His Trp Val Lys Gln Ser His Ala Lys Ser Leu Glu Trp Ile 35 40 45

Gly Val Ile Ser Thr Tyr Tyr Gly Asn Thr Arg Tyr Asn Gln Lys Phe 50 60

Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ala Ser Leu Thr Ser Glu Asp Ser Val Ile Tyr Tyr Cys 85 90 95

Ala Arg Ser Gly Gly Ser Leu Met Asp Tyr Trp Gly Gln Gly Thr Ser 100 105 110

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<213> Homo sapiens

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Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser 20 25 30

Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser 35 40 45

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro 50 60

Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile 70 75 80

Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Trp Gln Gly 85 90 95

Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

Arg

<210> 15

<211> 117

<212> PRT

<213> Homo sapiens

<400> 15

Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Arg Pro Gly Val 1 5 10 15

Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Asp Tyr 20 25 30

Ala Met His Trp Val Lys Gln Ser His Ala Lys Ser Leu Glu Trp Ile 35 40 45

Gly Val Ile Ser Thr Tyr Tyr Ser Asn Thr Arg Tyr Asn Gln Lys Phe 50 60

Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ala Arg Leu Thr Ser Glu Asp Ser Ala Ile Tyr Tyr Cys 85 90 95 Val Arg Ser Gly Gly Ser Asn Met Asp Tyr Trp Gly Gln Gly Thr Ser 100 105 110

Val Thr Val Ser Ser 115

<210> 16

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<213> Homo sapiens

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Asp Ile Gln Met Thr Gln Thr Pro Leu Thr Leu Ser Val Thr Ile Gly
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Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser 20 25 30

Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro 50 60

Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80

Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Trp Gln Gly
85 90 95

Thr His Phe Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

Arg

<210> 17

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<212> PRT

<213> Homo sapiens

<400> 17

Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Arg Pro Gly Val 1 5 10 15

Ser Val Lys Ile Ser Cys Lys Gly Ser Ser Tyr Lys Phe Thr Asp Tyr

Ala Met His Trp Val Lys Gln Ser His Ala Lys Ser Leu Glu Trp Ile 35 40 45

Gly Val Ile Ser Thr Tyr Tyr Gly Asn Val Lys Tyr Asn Gln Lys Phe 50 60

Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ala Arg Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys

Ala Arg Ser Ser Gly Ser Tyr Leu Asp Tyr Trp Gly Gln Gly Thr Ser 100 105 110

Val Thr Val Ser Ser 115

<210> 18

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<213> Homo sapiens

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Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser 20 25 30

Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser 35 40 45

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro 50 55 60

Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80

Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Trp Gln Gly 85 90 95

Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

Arg

<210> 19

<211> 119

<212> PRT

<213> Homo sapiens

<400> 19

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly Thr
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn Tyr 20 25 30

Leu Ile Glu Trp Val Lys Gln Arg Pro Gly Gln Gly Pro Glu Trp Ile 35 40 45

Gly Val Ile Asn Pro Gly Ser Gly Asn Ile Arg Tyr Asn Gly Lys Phe 50 55 60

Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr

Met Gln Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys 85 90 95

Ala Arg Asp Ala Tyr Tyr Val Gly Ala Met Asp Tyr Trp Gly Gln Gly
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Thr Ser Val Thr Val Ser Ser 115

<210> 20

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<213> Homo sapiens

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Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser 20 25 30

Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser 35 40 45

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro 50 60

Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile 65 70 75 80

Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Trp Gln Gly
85 90 95

Thr His Phe Pro Gln Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu Lys
100 105 110

Arg

<210> 21

<211> 119

<212> PRT

<213> Homo sapiens

<400> 21

Gln Val Gln Leu Gln Gln Ser Glu Ala Glu Leu Val Arg Pro Glu Thr
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Arg Asn Tyr 20 25 30

Leu Ile Glu Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile 35 40 45

Gly Val Ile Asn Pro Gly Ser Gly Asn Thr Lys Tyr Asn Glu Lys Phe

Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr 65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys
85 90 95

Ala Arg Asp Gly Tyr Tyr Leu Gly Thr Met Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Ser Val Thr Val Ser Ser 115

<210> 22

<211> 113

<212> PRT

<213> Homo sapiens

<400> 22

Asp Ile Val Leu Thr Gln Thr Pro Leu Thr Leu Ser Val Thr Ile Gly
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Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser 20 25 30

Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser 35 40 45

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
50 60

Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile 70 75 80

Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Trp Gln Gly 85 90 95

Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

Arg

<210> 23

<211> 119

<212> PRT

<213> Homo sapiens

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Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly Thr
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ile Asn Asn 20 25 30

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Leu Ile Glu Trp Val Gln Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45
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Gly Val Ile Asn Pro Gly Ser Gly Asn Val Lys Tyr Asn Glu Lys Phe 55 60

Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr 65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys 85 90 95

Ala Arg Asp Gly Tyr Tyr Leu Gly Thr Met Asp His Trp Gly Gln Gly
100 105 110

Thr Ser Val Thr Val Ser Ser 115

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Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser 20 25 30

Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro 50 55 60

Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile 65 70 75 80

Ser Arg Val Glu Ala Glu Asp Leu Gly Ile Tyr Tyr Cys Trp Gln Gly 85 90 95

Thr His Phe Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu Lys
100 105 110

Arg

<210> 25

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<213> Homo sapiens

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Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Arg Pro Gly Val
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Ser Val Lys Ile Ser Cys Lys Gly Ser Ser Tyr Lys Phe Thr Asp Tyr

Ala Met His Trp Val Lys Gln Ser His Ala Lys Ser Leu Glu Trp Ile 35 40 45

Gly Val Ile Ser Thr Tyr Tyr Gly Asn Val Lys Tyr Asn Gln Lys Phe 50 60

Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ala Arg Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ser Tyr Gly Ser Tyr Leu Asp Tyr Trp Gly Gln Gly Thr Ser 100 105 110

Val Thr Val Ser Ser 115

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<212> PRT

<213> Homo sapiens

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Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser 20 25 30

Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser 35 40 45

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro 50 60

Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile 65 70 75 80

Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Trp Gln Gly
85 90 95

Thr His Phe Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
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Gly Tyr Tyr Trp Thr Trp Ile Arg Gln Phe Pro Gly Asn Asn Leu Glu
Trp Ile Gly Tyr Ile Ser Phe Asp Gly Thr Asn Asp Tyr Asn Pro Ser
Leu Lys Asn Arg Ile Ser Ile Thr Arg Asp Thr Ser Glu Asn Gln Phe
Phe Leu Lys Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr
Cys Ala Arg Gly Pro Pro Cys Thr Tyr Trp Gly Gln Gly Thr Leu Val
Thr Val Ser Ala
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Ser Gly Tyr Tyr Trp Thr
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Gly Pro Pro Cys Thr Tyr
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Met Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly
Ala Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp
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25

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Asp Tyr Val His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp
Ile Gly Arg Ile Asp Pro Ala Asp Gly Lys Thr Lys Tyr Ala Pro Lys
Phe Gln Asp Lys Ala Thr Met Thr Ser Asp Thr Ser Ser Asn Thr Ala
Tyr Leu Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr
Cys Val Arg Trp Arg Ile Tyr Tyr Gly Leu Met Asp Tyr Trp Gly Gln
Gly Thr Ser Val Thr Val Ser Ser
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Asp Asp Tyr Val His
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Arg Ile Asp Pro Ala Asp Gly Lys Thr Lys Tyr Ala Pro Lys Phe Gln
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Asp
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Trp Arg Ile Tyr Tyr Gly Leu Met Asp Tyr
<210> 47
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<213> Mus musculus
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Met Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly
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Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr His
                                25
Phe Val Leu His Trp Val Lys Gln Asn Pro Gly Gln Gly Leu Glu Trp
Ile Gly Tyr Ile Ile Pro Tyr Asn Asp Gly Thr Lys Tyr Asn Glu Lys
Phe Lys Gly Lys Ala Thr Leu Thr Ser Asp Lys Ser Ser Ser Thr Ala
Tyr Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr
Cys Ala Arg Gly Asn Arg Tyr Asp Val Gly Ser Tyr Ala Met Asp Tyr
                                105
Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
                            120
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<213> Mus musculus
<400> 48
His Phe Val Leu His
<210> 49
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Tyr Ile Ile Pro Tyr Asn Asp Gly Thr Lys Tyr Asn Glu Lys Phe Lys
                                    10
Gly
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Gly Asn Arg Tyr Asp Val Gly Ser Tyr Ala Met Asp Tyr
<210> 51
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<212> PRT
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<213> Mus musculus

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Met Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly
Ala Ser Val Lys Leu Ser Cys Thr Val Ser Gly Phe Asn Ile Gln Asp
Asn Tyr Met His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp
                           40
Ile Gly Arg Ile Asp Pro Ala Asn Gly Asn Thr Arg Tyr Asp Pro Lys
Phe Gln Gly Lys Ala Thr Ile Thr Ala Asp Ile Ser Ser Asn Thr Thr
Cys Leu Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr
Cys Ala Ser Pro Tyr Tyr Pro Leu Gly Cys Trp Gly Gln Gly Thr Leu
                               105
Val Thr Val Ser Ala
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Asp Asn Tyr Met His
<210> 53
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Arg Ile Asp Pro Ala Asn Gly Asn Thr Arg Tyr Asp Pro Lys Phe Gln
                                    10
Gly
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Pro Tyr Tyr Pro Leu Gly Cys
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Met Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly
Ala Ser Val Lys Ile Ser Cys Lys Thr Ser Gly Tyr Thr Phe Thr Glu
Asn Thr Ile Tyr Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp
Ile Gly Ser Ile Thr Thr Tyr Asn Gln Lys Phe Lys Asp Lys Ala Thr
    50
Leu Thr Ile Asp Lys Ser Ser Ser Ser Ala Tyr Met Glu Leu Arg Ser
Leu Thr Ser Glu Glu Ser Ala Val Tyr Tyr Cys Ala Arg Ser Gly Gly
Arg Gly Lys Pro Tyr Tyr Phe Asp Ser Trp Gly Gln Gly Thr Thr Leu
            100
                               105
Thr Val Ser Ser
       115
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<213> Mus musculus
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Glu Asn Thr Ile Tyr
<210> 57
<211> 11
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<213> Mus musculus
Ser Ile Thr Thr Tyr Asn Gln Lys Phe Lys Asp
                5
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<213> Mus musculus
Ser Gly Gly Arg Gly Lys Pro Tyr Tyr Phe Asp Ser
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<210> 59 <211> 117

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<212> PRT
<213> Mus musculus
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Met Gln Val Gln Leu Gln Gln Ser Gly Ser Glu Leu Val Lys Pro Gly
Ala Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp
                                25
Asn Tyr Met His Trp Ile Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp
Ile Gly Arg Ile Asp Pro Gly Asn Gly Asn Ser Arg Tyr Asp Pro Lys
Phe Gln Gly Lys Ala Thr Ile Thr Ala Asp Thr Ser Ser Asn Thr Ala
Tyr Leu Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr
Cys Ala Ser Pro Tyr Tyr Pro Leu Gly Tyr Trp Gly Gln Gly Thr Leu
            100
                                105
Val Thr Val Ser Ala
        115
<210> 60
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<212> PRT
<213> Mus musculus
<400> 60
Asp Asn Tyr Met His
<210> 61
<211> 17
<212> PRT
<213> Mus musculus
<400> 61
Arg Ile Asp Pro Gly Asn Gly Asn Ser Arg Tyr Asp Pro Lys Phe Gln
                5
Gly
<210> 62
<211> 7
<212> PRT
<213> Mus musculus
<400> 62
Pro Tyr Tyr Pro Leu Gly Tyr
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<210> 63
<211>
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<213> Mus musculus
<400> 63
Met Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly
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Ala Ser Val Lys Leu Ser Cys Thr Val Ser Gly Phe Asn Ile Lys Asp
Asp Tyr Ile His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp
Ile Gly Arg Ile Asp Pro Thr Asn Gly Asn Pro Ala Tyr Ala Pro Lys
Phe Gln Asp Lys Ala Thr Ile Thr Ala Asp Thr Ser Ser Ile Thr Ala
                    70
Tyr Leu Gln Leu Asn Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr
Cys Thr Gly Ser Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
Ser Ala
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<213> Mus musculus
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Asp Asp Tyr Ile His
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Arg Ile Asp Pro Thr Asn Gly Asn Pro Ala Tyr Ala Pro Lys Phe Gln
                                    10
Asp
<210> 66
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<212> PRT

<213> Mus musculus

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<400> 66
Ser Phe Ala Tyr
<210> 67
<211> 114
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Met Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly
Ala Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp
Asp Tyr Val His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp
Ile Gly Arg Ile His Pro Ala Asn Gly Asn Pro Gln Tyr Ala Pro Lys
Phe Gln Asp Lys Ala Thr Ile Ile Ile Gly Thr Ala Ser Asn Thr Thr
Tyr Leu Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr
Cys Ala Gly Pro Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
Ser Ala
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Asp Asp Tyr Val His
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Arg Ile His Pro Ala Asn Gly Asn Pro Gln Tyr Ala Pro Lys Phe Gln
Asp
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<210> 70 <211> 4

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Pro Phe Ala Tyr
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Met Glu Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser
Gln Ser Leu Ser Leu Thr Cys Ser Val Thr Gly Tyr Ser Ile Thr Ser
Asn Tyr Tyr Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu
Trp Met Gly Tyr Ile Asn Tyr Asp Gly Ser Asn Asn Tyr Asn Pro Ser
Leu Lys Asn Arg Ile Ser Ile Ser Arg Asp Thr Ser Lys Asn Gln Phe
                                        75
Phe Leu Lys Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr
Cys Ala Arg Gly Gly Ala Phe Thr Tyr Trp Gly Gln Gly Thr Leu Val
                                105
Thr Val Ser Ala
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<210> 72
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<213> Mus musculus
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Ser Asn Tyr Tyr Trp Asn
               5
<210> 73
<211>
      16
<212> PRT
<213> Mus musculus
Tyr Ile Asn Tyr Asp Gly Ser Asn Asn Tyr Asn Pro Ser Leu Lys Asn
                                    10
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<211> 6
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<212> PRT
<213> Mus musculus
<400> 74
Gly Gly Ala Phe Thr Tyr
<210> 75
<211> 114
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<213> Mus musculus
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Met Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly
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Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Ile Thr Asp
Asn Lys Met Asp Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp
Ile Gly Tyr Ile Ser Pro Asn Asn Gly Asp Ile Gly Tyr Asn Arg Lys
Phe Arg Asn Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala
                    70
Tyr Met Glu Leu His Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr
Cys Ala Arg His Arg Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
                                105
Ser Ala
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<400> 76
Asp Asn Lys Met Asp
<210> 77
<211> 17
<212> PRT
<213> Mus musculus
<400> 77
Tyr Ile Ser Pro Asn Asn Gly Asp Ile Gly Tyr Asn Arg Lys Phe Arg
                                    10
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Asn

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<400> 78
His Arg Ala Tyr
<210> 79
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<212> PRT
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Met Asp Val Gln Leu Val Glu Ser Gly Gly Leu Val Lys Pro Gly
Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr
Tyr Ala Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp
                           40
Val Ala Tyr Ile Ser Asn Gly Gly Ala Asn Thr Tyr Tyr Pro Asp Ser
Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu
Tyr Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Tyr
Cys Ala Arg Gly Gly Tyr Arg Tyr Pro Tyr Ala Met Asp Tyr Trp Gly
                               105
Gln Gly Thr Ser Val Thr Val Ser Ser
                            120
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Thr Tyr Ala Met Ser
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Tyr Ile Ser Asn Gly Gly Ala Asn Thr Tyr Tyr Pro Asp Ser Val Lys
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Gly
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